```
FILE 'HOME' ENTERED AT 00:47:32 ON 10 APR 2007

=> index chemistry
FILE 'ENCOMPLIT2' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

INDEX 'AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUALINE, AQUIRE, BABS, BIOTECHNO,
       CABA, CAOLD, CAPLUS, CBNB, CEABA-VTB, CERAB, CIN, COMPENDEX, CONFSCI,
       COPPERLIT, CORROSION, DISSABS, ENCOMPLIT, GENBANK, INSPEC, INSPHYS, IPA,
       KOSMET, METADEX, NAPRALERT, ...' ENTERED AT 00:48:15 ON 10 APR 2007

41 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view
search error messages that display as 0* with SET DETAIL OFF.

=> s ((self assembl? or amphiphil? or nanofiber# or nanotube# or nano particle# or
nanomaterial# or nanocluster# ) (w) (peptide or polypeptide) (p) (scaffold? or
matrix or matrices or surgace or crystal? (w) grow)
) IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s ((self assembl? or amphiphil? or nanofiber# or nanotube# or nano particle# or
nanomaterial# or nanocluster# ) (w) (peptide or polypeptide))  (p) (scaffold? or
matrix or matrices or surgace or crystal? (w) grow?)
          0*  FILE ALUMINIUM
          3*  FILE APOLLIT
          0*  FILE AQUALINE
          0*  FILE BABS
          9*  FILE BIOTECHNO
          1   FILE CABA
   9 FILES SEARCHED...
          0*  FILE CAOLD
         76   FILE CAPLUS
          1*  FILE CBNB
          0*  FILE CEABA-VTB
          1*  FILE CIN
         35*  FILE COMPENDEX
          0*  FILE COPPERLIT
  18 FILES SEARCHED...
          0*  FILE CORROSION
          6   FILE DISSABS
          0*  FILE ENCOMPLIT
         26   FILE GENBANK
         16*  FILE INSPEC
          0*  FILE INSPHYS
          2   FILE IPA
          0*  FILE KOSMET
          3*  FILE METADEX
  28 FILES SEARCHED...
          2*  FILE NTIS
         11*  FILE PASCAL
          3   FILE PROMT
          1*  FILE RAPRA
  33 FILES SEARCHED...
         40   FILE SCISEARCH
          0*  FILE WATER
          0*  FILE WELDASEARCH
          0*  FILE WSCA
```

```
  17 FILES HAVE ONE OR MORE ANSWERS,   41 FILES SEARCHED IN STNINDEX

L1   QUE ((SELF ASSEMBL? OR AMPHIPHIL? OR NANOFIBER# OR NANOTUBE# OR NANO PARTI
         CLE# OR NANOMATERIAL# OR NANOCLUSTER# ) (W) (PEPTIDE OR POLYPEPTIDE))
         (P) (SCAFFOLD? OR MATRIX OR MATRICES OR SURGACE OR CRYSTAL? (W) GROW?)


=> d rank
F1           76   CAPLUS
F2           40   SCISEARCH
F3           35*  COMPENDEX
F4           26   GENBANK
F5           16*  INSPEC
F6           11*  PASCAL
F7            9*  BIOTECHNO
F8            6   DISSABS
F9            3   PROMT
F10           3*  APOLLIT
F11           3*  METADEX
F12           2   IPA
F13           2*  NTIS
F14           1   CABA
F15           1*  CBNB
F16           1*  CIN
F17           1*  RAPRA


=> file F1-3 F7-9
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     8.82       9.03

FILE 'CAPLUS' ENTERED AT 00:56:51 ON 10 APR 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE 'SCISEARCH' ENTERED AT 00:56:51 ON 10 APR 2007
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FILE 'COMPENDEX' ENTERED AT 00:56:51 ON 10 APR 2007
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FILE 'BIOTECHNO' ENTERED AT 00:56:51 ON 10 APR 2007
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FILE 'DISSABS' ENTERED AT 00:56:51 ON 10 APR 2007
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FILE 'PROMT' ENTERED AT 00:56:51 ON 10 APR 2007
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=> s l1
L2           76 FILE CAPLUS
L3           40 FILE SCISEARCH
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED ') (P) '
L4           35 FILE COMPENDEX
PROXIMITY OPERATOR LEVEL NOT CONSISTENT WITH
FIELD CODE - 'AND' OPERATOR ASSUMED ') (P) '
L5            9 FILE BIOTECHNO
L6            6 FILE DISSABS
```

```
L7            3 FILE PROMT

TOTAL FOR ALL FILES
L8          169 L1

=> s l8 and self-assembl?
L9           67 FILE CAPLUS
L10          37 FILE SCISEARCH
L11          35 FILE COMPENDEX
L12           7 FILE BIOTECHNO
L13           6 FILE DISSABS
L14           3 FILE PROMT

TOTAL FOR ALL FILES
L15         155 L8 AND SELF-ASSEMBL?

=> Dup rem l15
PROCESSING COMPLETED FOR L15
L16          99 DUP REM L15 (56 DUPLICATES REMOVED)

=> d l16 1-99 ibib abs

L16  ANSWER 1 OF 99  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2007:296816  CAPLUS
TITLE:                    Controlling the nanoarchitechture of self-
                          assembled coiled-coil peptide nanofiber
                          scaffolds
AUTHOR(S):                Dong, He; Hartgerink, Jeffrey
CORPORATE SOURCE:         Department of Chemistry, Rice University, Houston, TX,
                          77005, USA
SOURCE:                   Abstracts of Papers, 233rd ACS National Meeting,
                          Chicago, IL, United States, March 25-29, 2007 (2007),
                          ORGN-791.  American Chemical Society: Washington, D.
                          C.
                          CODEN: 69JAUY
DOCUMENT TYPE:            Conference; Meeting Abstract; (computer optical disk)
LANGUAGE:                 English
AB    Self-assembled peptide-based materials are
      attracting much attention in their use as extracellular matrix
      (ECM) mimics in tissue engineering.  Here we will describe series of
      coiled coil peptides, which spontaneously self-assemble
      into a network of nanofibers with controlled diameter and length.  We propose
      the self-assembly takes place through three steps,
      which include: 1. Single peptide mols. self-assemble
      into a coiled coil dimer with a sticky end. 2. This initiates and promotes
      peptides growth into fibrils with 2 nm diameter 3. These fibrils undergo a
      laterally aggregation, leading to the formation of thickened fibers.  For
      the first time both the fibril of 2 nm in diameter and the thickened fibers
      have both been observed by Cryo-TEM.  In addition, we show that fiber morphol.
      correlates with the helix stability and peripheral amino acid composition  We
      believe the study performed here will provide the basis for control over
      the nanoarchitecture of protein-based biomaterials.

L16  ANSWER 2 OF 99  CAPLUS  COPYRIGHT 2007 ACS on STN DUPLICATE 1
ACCESSION NUMBER:         2007:388262  CAPLUS
TITLE:                    Systematic studies of a self-
                          assembling peptide nanofiber
                          scaffold with other scaffolds
AUTHOR(S):                Gelain, Fabrizio; Lomander, Andrea; Vescovi, Angelo
                          L.; Zhang, Shuguang
CORPORATE SOURCE:         Center for Biomedical Engineering NE47-379,
                          Massachusetts Institute of Technology, Cambridge, MA,
                          02139-4307, USA
SOURCE:                   Journal of Nanoscience and Nanotechnology (2007),
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